

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	20630	(427/534-537,543-546,564,566,567,596,597,577,590,78,122,249,1,250-253,264-266,270-273,375-376.8).CQLS.	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT	OR	OFF	2011/11/10 12:40
L2	205198	((Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) same ((heat\$5 temperature thermal\$5) near (treat\$7 posttreat\$7) anneal\$5 melt\$5 soften)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L3	379000	((Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) with (discontinuous\$5 disconnect\$5 pattern\$5 sequential\$5 particle grain granular particulate microparticle nanoparticle coalesc\$7 crystalliz\$7 recrystalliz\$7 drops droplets fragment\$7)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L4	25449	((Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) same (discontinuous\$5 disconnect\$5 pattern\$5 sequential\$5) same (particle grain granular particulate microparticle nanoparticle coalesc\$7 crystalliz\$7 recrystalliz\$7 drops droplets fragment\$7)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L5	3705	L2 same L3 same L4	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L6	4618	L2 same2 L3 same2 L4	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40

L7	424586	((Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (catalysts catalytic\$5)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L8	213770	((catalysts catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) same ((heat\$5 temperature thermal\$5) near (treat\$7 posttreat\$7) anneal\$5 melt\$5 soften)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L9	402631	((catalysts catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) with (discontinuous\$5 disconnect\$5 pattern\$5 sequential\$5 particle grain granular particulate microparticle nanoparticle coalesc\$7 crystalliz\$7 recrystalliz\$7 drops droplets fragment\$7)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L10	27006	((catalysts catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) same (discontinuous\$5 disconnect\$5 pattern\$5 sequential\$5) same (particle grain granular particulate microparticle nanoparticle coalesc\$7 crystalliz\$7 recrystalliz\$7 drops droplets fragment\$7)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L11	1168	(L5 or L6) and L7	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L12	3883	L8 same L9 same L10	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L13	920	L12 and L2 and L3 and L4 and L7	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40
L14	135	(L11 or L13) and (CNT MWCNT (carbon "C.u/c.") adj (nanotube nanotubular nanotubing nanofiber nanostructure\$2 nano adj (tube tubular tubing fiber structure\$2)))	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:40

L15	16	L1 and L14	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 12:40
L16	119	L14 not L15	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 12:40
L17	126154	((catalysts catalytic\$ Metal metallic nickel Ni iron Fe cobalt "Co.m/c." with (deposit\$ coat\$ layer\$ film)) same (oxygen O2 "O.sub.2"))	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 12:40
L18	38	L16 and L17	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 12:40
L19	70	L16 and ((barrier buffer) near (layer coat\$ film interlayer) titanium adj nitride TiN)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 12:40
L20	6	L15 and ((barrier buffer) near (layer coat\$ film interlayer) titanium adj nitride TiN)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 12:40
L21	24	L18 and L19	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 12:40
L22	100	L19 or L18 or L21 or L20 or L15	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 12:40

L23	14	L22 and @pd> "20110318"	US:PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 12:44
L24	88234	((Catalyst catalytic\$ Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$ coat\$ layer\$ film)) with (sublayer subfilm subcoat\$ multilayer multicoat\$ multilayer (sub multi plural many multiple atomic) adj (layer film coat\$) ALD)	US:PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 13:36
L25	11126	((catalyst catalytic\$ Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$ coat\$ layer\$ film)) same ((hydrogen H2 "H.sub.2" reducing) with (plasma corona glow adj discharg\$ anneal\$))	US:PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 13:39
L26	218758	L25 or L8	US:PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 13:39
L27	46351	((catalyst catalytic\$ Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$ coat\$ layer\$ film)) same (tension\$ stress\$ repel\$ discontinuous\$ disconnect\$ continuous pattern\$ sequential\$) same (particle grain granular particulate microparticle nanoparticle coalesc\$ crystalliz\$ recrystalliz\$ drops droplets fragment\$)	US:PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 13:41
L28	220307	((catalyst catalytic\$ Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") same (deposit\$ coat\$ layer\$ film)) with (vapor\$ vacuum evaporat\$ PVD EBPVD)	US:PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 13:45
L29	18407	((catalyst catalytic\$ Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") same2 (deposit\$ coat\$ layer\$ film)) with (vapor vaporiz\$ vacuum evaporat\$ PVD EBPVD) with (shield\$ block\$ mask\$ shadow\$ aperture discontinuous\$ disconnect\$ sequential\$)	US:PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 13:55
L30	15742	L26 and L27	US:PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 13:57

L31	2108	L24 and L28 and L29	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 13:58
L32	886	L24 same2 L28 same2 L29	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 13:58
L33	886	L31 and L32	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 13:59
L34	39	L33 and L30	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 13:59
L35	37	L34 not L22	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 13:59
L36	9485	((427/539,540,377,404,419.2) or (118/719,720,723VE,723EB)).OCL.S	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT	OR	OFF	2011/11/10 14:02
L37	37	(L1 or L36) and L33	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:02
L38	36	L37 not (L22 or L34)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:03

L39	47849	((catalyst catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film) same (tension\$4 stress\$4 repel\$7 discontinuous\$5 disconnect\$5 continuous pattern\$5 sequential\$5) same (nodule nodul nucleat\$4 particle grain granular particulate microparticle nanoparticle coalesc\$7 crystalliz\$7 recrystalliz\$7 drops droplets fragment \$7)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:15
L40	16253	L26 and L39	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:17
L41	18841	((catalyst catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") same2 (deposit\$4 coat\$4 layer\$4 film)) with (vapor vaporiz\$4 vacuum evaporat\$5 PVD EBPVD) with (shutter\$4 shield\$4 block\$4 mask\$4 shadow \$4 aperture discontinuous\$4 disconnect\$4 sequential\$4)	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:18
L42	2199	L24 and L28 and L41	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:19
L43	894	L24 same2 L28 same2 L41	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:20
L44	894	L42 and L43	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:20
L45	41	L40 and L44	US-PGPUB; USPAT; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:20

L46	37	(L1 or L36) and L44	US:PGPUB; USPAT; FPRS; EPC; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:21
L47	39	L45 not L22	US:PGPUB; USPAT; FPRS; EPC; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:22
L48	35	L46 not (L22 or L45)	US:PGPUB; USPAT; FPRS; EPC; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 14:22
L55	80388	((catalyst catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) same (tension\$4 stress\$4 repel\$7 discontinuous\$5 disconnect\$5 continuous pattern\$5 sequential\$5) same (segregat\$4 separat\$4 nodule nucleat\$4 particle grain granular particulate microparticle nanoparticle coalesc\$7 crystalliz\$7 recrystalliz\$7 drops droplets fragment\$7)	US:PGPUB; USPAT; FPRS; EPC; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 15:34
L58	22398	L26 and L55	US:PGPUB; USPAT; FPRS; EPC; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 15:36
L59	92	L58 and L44	US:PGPUB; USPAT; FPRS; EPC; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 15:37
L60	51	L59 not (L22 or L45 or L47)	US:PGPUB; USPAT; FPRS; EPC; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/10 15:38

L61	30	L60 and (catalyst catalytic\$5 nickel Ni iron Fe cobalt "Co.m/c.")	US:PPUB; USPAT; FPRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2011/11/10 15:39
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## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L49	15	(427/534-537,543-546,564,566,567,596,597,577,590,78,122,249,1,250-253,264-266,270-273,375-376.8).CQLS.	UPAD	OR	OFF	2011/11/10 15:29
L50	8	((427/539,540,377,404,419.2) or (118/719,720,723VE,723EB)).CQLS.	UPAD	OR	OFF	2011/11/10 15:29
L51	204	((Catalyst catalytic\$4 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) with (sublayer subfilm subcoat\$ multilayer multicoat\$5 multifilm (sub multi plural many multiple atomic) adj (layer film coat\$4) ALD)	UPAD	OR	ON	2011/11/10 15:30
L52	267	((catalysts catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) same ((heat\$5 temperature thermal\$5) near (treat\$7 posttreat\$7) anneal\$5 melt\$5 soften)	UPAD	OR	ON	2011/11/10 15:31
L53	16	((catalyst catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) same ((hydrogen H2 "H.sub.2" reducing) with (plasma corona glow adj discharg\$4 anneal\$5))	UPAD	OR	ON	2011/11/10 15:32
L54	271	L52 or L53	UPAD	OR	ON	2011/11/10 15:32
L56	171	((catalyst catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") with (deposit\$5 coat\$5 layer\$5 film)) same (tension\$4 stress\$4 repel\$7 discontinuous\$5 disconnect\$5 continuous pattern\$5 sequential\$5) same (segregate\$4 separat\$4 nodule nucleat\$4 particle grain granular particulate microparticle nanoparticle coalesc\$7 crystalliz\$7 recrystalliz\$7 drops droplets fragment\$7)	UPAD	OR	ON	2011/11/10 15:35
L57	24	((catalyst catalytic\$5 Metal metallic nickel Ni iron Fe cobalt "Co.m/c.") same2 (deposit\$4 coat\$4 layer\$4 film)) with (vapor vaporiz\$4 vacuum evaporat\$5 PVD EB PVD) with (shutter\$4 shield\$4 block\$4 mask\$4 shadow\$4 aperture discontinuous\$4 disconnect\$4 sequential\$4)	UPAD	OR	ON	2011/11/10 15:35
L62	22	L49 or L50	USPAT; UPAD	OR	ON	2011/11/10 15:53



L63	4	L62 and (L51 or L54 or L56 or L57)	USPAT; UPAD	OR	ON	2011/11/10 15:54
L64	0	(L51 and L54 and L56 and L57)	USPAT; UPAD	OR	ON	2011/11/10 15:54
L65	1	(L51 and (L54 or L56) and L57)	UPAD	OR	ON	2011/11/10 15:55

11/10/2011 3:57:07 PM

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